IFW16
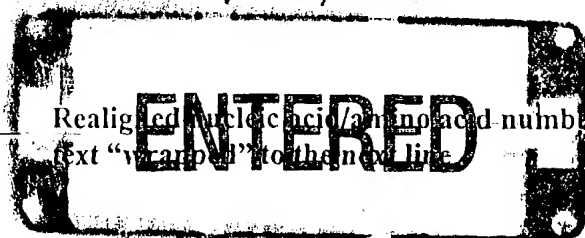
CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/673,302 E   CRF Edit Date: 7/30/04
Edited by: AZ

ENTERED

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line.

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_____ Deleted: ____ invalid beginning/end-of-file text ; ____ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____

_____ Other:

_____
_____
_____

Revised 09/09/2003

IFW16

RAW SEQUENCE LISTING   DATE: 07/30/2004
PATENT APPLICATION: **US/09/673,302E** TIME: 11:08:22

  Input Set : **A:\PTO.AMC.txt**
  Output Set: **N:\CRF4\07302004\I673302E.raw**

```
 3 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
 4       Law, Deborah Ann
 5       Phillips, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mice Expressing Mutant GP IIIa (beta-3) Protein
 9 <130> FILE REFERENCE: MPI98-148P1USM
11 <140> CURRENT APPLICATION NUMBER: US 09/673,302E
12 <141> CURRENT FILING DATE: 2001-03-23
14 <150> PRIOR APPLICATION NUMBER: US 60/115,516
15 <151> PRIOR FILING DATE: 1998-04-15
17 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
18 <151> PRIOR FILING DATE: 1999-04-15
20 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 66
26 <212> TYPE: PRT
27 <213> ORGANISM: Mus musculus
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Segment of GP IIIa integrin beta-3 subunit
32 <220> FEATURE:
33 <221> NAME/KEY: Variant
34 <222> LOCATION: (1)...(66)
35 <223> OTHER INFORMATION: Xaa = any amino acid
37 <220> FEATURE:
38 <221> NAME/KEY: Variant
39 <222> LOCATION: (41)...(48)
40 <223> OTHER INFORMATION: This segment of any amino acids can be from
41       zero to eight amino acids long.
43 <220> FEATURE:
44 <221> NAME/KEY: Variant
45 <222> LOCATION: (56)...(66)
46 <223> OTHER INFORMATION: This segment of any amino acids can be from
47       zero to eleven amino acids long.
49 <400> SEQUENCE: 1
50 Lys Leu Leu Leu Thr Thr His Asp Arg Lys Glu Phe Ala Lys Phe Glu
51  1               5                  10                  15
53 Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr
54              20                  25                  30
56 Lys Glu Ala Thr Ser Thr Phe Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
57              35                  40                  45
59 Asn Ile Thr Tyr Arg Gly Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
60      50                  55                  60
62 Xaa Xaa
```

W--> (at line 56)

RAW SEQUENCE LISTING   DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E   TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

```
 63   65
 66 <210> SEQ ID NO: 2
 67 <211> LENGTH: 66
 68 <212> TYPE: PRT
 69 <213> ORGANISM: Mus musculus
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Segment of integrin beta-6 subunit
 74 <220> FEATURE:
 75 <221> NAME/KEY: Variant
 76 <222> LOCATION: (1)...(66)
 77 <223> OTHER INFORMATION: Xaa = any amino acid
 79 <220> FEATURE:
 80 <221> NAME/KEY: Variant
 81 <222> LOCATION: (41)...(48)
 82 <223> OTHER INFORMATION: This segment of any amino acids can be from
 83       zero to eight amino acids long.
 86 <400> SEQUENCE: 2
 87 Lys Leu Leu Val Ser Phe His Asp Arg Lys Glu Val Ala Lys Phe Glu
 88  1               5                  10                  15
 90 Ala Glu Arg Ser Lys Ala Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr
 91              20                  25                  30
```
W--> 93 Arg Gly Ser Thr Ser Thr Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
```
 94              35                  40                  45
 96 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr
 97      50                  55                  60
 99 Asp Cys
100   65
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 66
105 <212> TYPE: PRT
106 <213> ORGANISM: Mus musculus
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Segment of integrin beta-1 subunit
111 <220> FEATURE:
112 <221> NAME/KEY: Variant
113 <222> LOCATION: (1)...(66)
114 <223> OTHER INFORMATION: Xaa = any amino acid
116 <220> FEATURE:
117 <221> NAME/KEY: Variant
118 <222> LOCATION: (41)...(48)
119 <223> OTHER INFORMATION: This segment of any amino acids can be from
120       zero to eight amino acids long.
122 <220> FEATURE:
123 <221> NAME/KEY: Variant
124 <222> LOCATION: (56)...(66)
125 <223> OTHER INFORMATION: This segment of any amino acids can be from
126       zero to eleven amino acids long.
128 <400> SEQUENCE: 3
129 Lys Leu Leu Met Leu Ile His Asp Arg Arg Glu Glu Ala Lys Glu Glu
```

```
                     RAW SEQUENCE LISTING            DATE: 07/30/2004
                     PATENT APPLICATION:  US/09/673,302E    TIME: 11:08:22

                     Input Set : A:\PTO.AMC.txt
                     Output Set: N:\CRF4\07302004\I673302E.raw


      130   1                5                    10                   15
      132 Lys Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr
      133             20                    25                   30
W-->  135 Lys Ser Ala Val Thr Thr Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      136             35                    40                   45
      138 Asn Pro Lys Tyr Glu Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      139         50                    55                   60
      141 Xaa Xaa
      142   65
      145 <210> SEQ ID NO: 4
      146 <211> LENGTH: 66
      147 <212> TYPE: PRT
      148 <213> ORGANISM: Mus musculus
      150 <220> FEATURE:
      151 <223> OTHER INFORMATION: Segment of integrin beta-5 subunit
      153 <220> FEATURE:
      154 <221> NAME/KEY: Variant
      155 <222> LOCATION: (1)...(66)
      156 <223> OTHER INFORMATION: Xaa = any amino acid
      158 <220> FEATURE:
      159 <221> NAME/KEY: Variant
      160 <222> LOCATION: (58)...(66)
      161 <223> OTHER INFORMATION: This segment of any amino acids can be from
      162       zero to nine amino acids long.
      164 <400> SEQUENCE: 4
      165 Lys Leu Leu Val Thr Ile His Asp Arg Arg Glu Phe Ala Lys Phe Gln
      166   1                5                    10                   15
      168 Ser Glu Arg Ser Arg Ala Arg Tyr Glu Met Ala Ser Asn Pro Leu Tyr
      169             20                    25                   30
      171 Arg Lys Pro Ile Ser Thr His Thr Val Asp Phe Thr Phe Asn Lys Phe
      172             35                    40                   45
W-->  174 Asn Lys Ser Tyr Asn Gly Thr Val Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      175         50                    55                   60
      177 Xaa Xaa
      178   65
      181 <210> SEQ ID NO: 5
      182 <211> LENGTH: 66
      183 <212> TYPE: PRT
      184 <213> ORGANISM: Mus musculus
      186 <220> FEATURE:
      187 <223> OTHER INFORMATION: Segment of integrin beta-2 subunit
      189 <220> FEATURE:
      190 <221> NAME/KEY: Variant
      191 <222> LOCATION: (1)...(66)
      192 <223> OTHER INFORMATION: Xaa = any amino acid
      194 <220> FEATURE:
      195 <221> NAME/KEY: Variant
      196 <222> LOCATION: (41)...(48)
      197 <223> OTHER INFORMATION: This segment of any amino acids can be from
```

RAW SEQUENCE LISTING   DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E   TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

```
198        zero to eight amino acids long.
200 <220> FEATURE:
201 <221> NAME/KEY: Variant
202 <222> LOCATION: (56)...(66)
203 <223> OTHER INFORMATION: This segment of any amino acids can be from
204        zero to eleven amino acids long.
206 <400> SEQUENCE: 5
207 Lys Ala Leu Thr His Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu
208   1            5                  10                  15
210 Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Xaa Asn Pro Leu Phe
211            20                  25                  30
213 Lys Ser Ala Thr Thr Thr Val Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
214          35                  40                  45
216 Asn Pro Lys Phe Ala Glu Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
217       50                  55                  60
219 Xaa Xaa
220  65
223 <210> SEQ ID NO: 6
224 <211> LENGTH: 66
225 <212> TYPE: PRT
226 <213> ORGANISM: Mus musculus
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Segment of integrin beta-7 subunit
231 <220> FEATURE:
232 <221> NAME/KEY: Variant
233 <222> LOCATION: (1)...(66)
234 <223> OTHER INFORMATION: Xaa = any amino acid
236 <220> FEATURE:
237 <221> NAME/KEY: Variant
238 <222> LOCATION: (41)...(48)
239 <223> OTHER INFORMATION: This segment of any amino acids can be from
240        zero to eight amino acids long.
242 <220> FEATURE:
243 <221> NAME/KEY: Variant
244 <222> LOCATION: (61)...(66)
245 <223> OTHER INFORMATION: This segment of any amino acids can be from
246        zero to six amino acids long.
248 <400> SEQUENCE: 6
249 Arg Leu Ser Val Glu Ile Tyr Asp Arg Arg Glu Tyr Ser Arg Phe Glu
250   1            5                  10                  15
252 Lys Glu Gln Gln Gln Leu Asn Trp Lys Gln Asp Ser Asn Pro Leu Tyr
253            20                  25                  30
255 Lys Ser Ala Ile Thr Thr Thr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
256          35                  40                  45
258 Asn Pro Arg Phe Gln Glu Ala Asp Ser Pro Thr Leu Xaa Xaa Xaa Xaa
259       50                  55                  60
261 Xaa Xaa
262  65
265 <210> SEQ ID NO: 7
```

W--> 210

W--> 255

RAW SEQUENCE LISTING   DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E   TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

266 <211> LENGTH: 65
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
272   sequence for segment of integrin beta subunits
274 <220> FEATURE:
275 <221> NAME/KEY: Variant
276 <222> LOCATION: (1)...(65)
277 <223> OTHER INFORMATION: Xaa = any amino acid
279 <220> FEATURE:
280 <221> NAME/KEY: Variant
281 <222> LOCATION: (41)...(48)
282 <223> OTHER INFORMATION: This segment of any amino acids can be from
283   zero to eight amino acids long.
285 <220> FEATURE:
286 <221> NAME/KEY: Variant
287 <222> LOCATION: (56)...(65)
288 <223> OTHER INFORMATION: This segment of any amino acids can be from
289   zero to ten amino acids long.
291 <400> SEQUENCE: 7

W--> 292 Lys Leu Leu Val Xaa Ile His Asp Arg Arg Glu Phe Ala Lys Phe Glu
293   1   5   10   15
295 Xaa Glu Xaa Xaa Xaa Ala Xaa Trp Xaa Xaa Xaa Xaa Asn Pro Leu Tyr
296   20   25   30
298 Lys Xaa Ala Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
299   35   40   45
301 Asn Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
302   50   55   60
304 Xaa
305 65

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/30/2004
PATENT APPLICATION: **US/09/673,302E**   TIME: 11:08:23

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\07302004\I673302E.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:2; Xaa Pos. 41,42,43,44,45,46,47,48
Seq#:3; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:4; Xaa Pos. 58,59,60,61,62,63,64,65,66
Seq#:5; Xaa Pos. 28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65
Seq#:5; Xaa Pos. 66
Seq#:6; Xaa Pos. 41,42,43,44,45,46,47,48,61,62,63,64,65,66
Seq#:7; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45
Seq#:7; Xaa Pos. 46,47,48,50,51,53,54,55,56,57,58,59,60,61,62,63,64,65

```
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
M:341 Repeated in SeqNo=1
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
M:341 Repeated in SeqNo=3
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
M:341 Repeated in SeqNo=4
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
M:341 Repeated in SeqNo=5
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
M:341 Repeated in SeqNo=6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7
```

```
       RAW SEQUENCE LISTING              DATE: 07/29/2004
       PATENT APPLICATION:  US/09/673,302E      TIME: 09:41:23

       Input Set : A:\sequene listing 5-04.txt
       Output Set: N:\CRF4\07292004\I673302E.raw

 3 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
 4        Law, Deborah Ann
 5        Phillips, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mice Expressing Mutant GP IIIa (beta-3) Protein
 9 <130> FILE REFERENCE: MPI98-148P1USM
11 <140> CURRENT APPLICATION NUMBER: US 09/673,302E
12 <141> CURRENT FILING DATE: 2001-03-23
14 <150> PRIOR APPLICATION NUMBER: US 60/115,516
15 <151> PRIOR FILING DATE: 1998-04-15
17 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
18 <151> PRIOR FILING DATE: 1999-04-15
20 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn Ver. 2.1
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P.2

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

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265 <210> SEQ ID NO: 7
266 <211> LENGTH: 65
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
272       sequence for segment of integrin beta subunits
274 <220> FEATURE:
275 <221> NAME/KEY: Variant
276 <222> LOCATION: (1)...(65)
277 <223> OTHER INFORMATION: Xaa = any amino acid
279 <220> FEATURE:
280 <221> NAME/KEY: Variant
281 <222> LOCATION: (41)...(48)
282 <223> OTHER INFORMATION: This segment of any amino acids can be from
283       zero to eight amino acids long.
285 <220> FEATURE:
286 <221> NAME/KEY: Variant
287 <222> LOCATION: (56)...(65)
288 <223> OTHER INFORMATION: This segment of any amino acids can be from
289       zero to ten amino acids long.
291 <400> SEQUENCE: 7
```

```
W--> 292 Lys Leu Leu Val Xaa Ile His Asp Arg Arg Glu Phe Ala Lys Phe Glu
     293   1               5                  10                  15
W--> 295 Xaa Glu Xaa Xaa Xaa Ala Xaa Trp Xaa Xaa Xaa Xaa Asn Pro Leu Tyr
     296          20              25                  30
```

RAW SEQUENCE LISTING   DATE: 07/29/2004
PATENT APPLICATION: US/09/673,302E   TIME: 09:41:23

Input Set : A:\sequene listing 5-04.txt
Output Set: N:\CRF4\07292004\I673302E.raw

```
W--> 298 Lys Xaa Ala Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     299         35              40                  45
W--> 301 Asn Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     302         50              55                  60
W--> 304 Xaa
     305  65
E--> 306  - 1 -
```

VERIFICATION SUMMARY   DATE: 07/29/2004
PATENT APPLICATION: **US/09/673,302E**   TIME: 09:41:24

Input Set : **A:\sequene listing 5-04.txt**
Output Set: **N:\CRF4\07292004\I673302E.raw**

```
L:56  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:59  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
L:62  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:93  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:64
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:64
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:16
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:64
L:306 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
```